

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Examiner: UNKNOWN

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Group 2838

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For:

FOR: A HIGH OUTPUT POWER QUASI-SQUARE WAVE INVERTER

CIRCUIT

FIRST AMENDMENT

Hon. Commissioner of Patents

PO BOX 1450

ALEXANDRIA, VA 22313-1450

Dear Sir: Please amend the application as follows:

IN THE CLAIMS:

Please amend the claims as follows:

1. (currently amended) A high output power inverter <u>circuit</u> from a de voltage source having a service line providing 22 to 36 Vdc from <u>coupled to obtain power from a voltage source (Vb) such as a battery service, the <u>voltage</u> source having a ground return line <u>(Vr)</u>, the <u>high output</u> power inverter <u>circuit</u> comprising:</u>

<u>a</u> [an input] toroidal transformer having a primary and a secondary winding, the primary winding having a first end, and a second end and a center tap, the center tap being coupled to the voltage source,

a first and second switch to switching means for switching conductively couple the first end and the second end of the transformer alternately to ground the ground return line (Vr) during alternate half cycles of successive power cycles for respective and successive first and second on-time intervals, the toroidal transformer secondary providing a quasi-square wave output voltage,

a pulse-width modulator and driver circuit for driving the first and second switch into conduction for each on-time during alternate half cycles of successive power cycles, and for interposing a dead-time or non-conductive interval between the first and second